Journal of Low Temperature Physics, Vol. 14, Nos. 5/6, 1974

Author Index to Volume 14

Abraham, B. M., 387
Arajs, S., 545
Åstrom, H. U., 545

Bass, R., 101
Bergmann, G., 501
Bernat, T. P., 597
Betts, D. S., 331
Blank, A. Ya., 459
Brewer, D. F., 331

Carbotte, J. P., 195
Chari, M. S. R., 365
Chausov, G. P., 397
Chen, Y., 277
Chuah, G. S., 257
Cohen, H. D., 597
Colwell, J. H., 53
Cooper, J. R., 243

Douglass, D. H., 565, 575

Finkelstein, M. M., 289
Foiles, C. L., 229
Friedberg, C. B., 111, 147, 175
Fulde, P., 247

Goldstein, L., 471
Goubau, W. M., 529

Hamilton, R. S., 331
Hedman, L., 545
Holzer, P., 247
Huang, H.-M., 413

Johnson, G. R., 565, 575

Keller, J., 247
Ketterson, J. B., 387
Kiendl, A., 349
Kirchner, H., 349
Kirschner, I., 427
Koga, S., 549
Koloskova, L. A., 403
Kramer, L., 29
Krupskii, I. N., 403
Kupperman, D. S., 277

Leavens, C. R., 195
Leger, J. M., 297
Leung, M. C., 373
Lin-Liu, Y.-R., 317
Lippmann, G., 213

Maki, K., 87, 419
Manzhelii, V. G., 397, 403
Martinás, K., 427
Maxfield, B. W., 15
McCarthy, S. L., 521
McLachlan, D. S., 607
Michael, P., 607

Nakanishi, K., 87

Onuki, A., 549
Ott, H. R., 73

Pesch, W., 29
Pfeiffer, E. R., 387
Pokrovskii, V. L., 459
Popov, V. A., 397
Pupp, W. A., 1

Rainer, D., 501
Rao, K. V., 545
Ratnalingam, R., 257
Rizzuto, C., 243
Roach, P. R., 387
Rosenthal, M. D., 15

Sattler, W. W., 1
Saur, E. J., 1
Schelten, J., 213
Schroeder, P. A., 101
Sharma, R. G., 365
Sheard, F. W., 445
Shibuya, Y., 549
Shih, Y. M., 413

© 1974 Plenum Publishing Corporation, 227 West 17th Street, New York, N.Y. 10011. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, microfilming, recording, or otherwise, without written permission of the publisher.

Sorbello, R. S., 73
Stark, R. W., 111, 175
Svensson, K., 545

Uimin, G. V., 459
Ullmaier, H., 213

Vladimirova, L. I., 397

Warman, J., 521
Watts-Tobin, R. J., 29
Weinstock, H., 277
White, G. K., 445
Woo, C.-W., 317, 413

Journal of Low Temperature Physics, Vol. 14, Nos. 5/6, 1974

Subject Index to Volume 14

A-15 compounds, 565, 575
Alloys, 101, 147, 279, 243, 365, 373, 445, 565, 575
Aluminum, 521
Antiferromagnets, 471
Attenuation, ultrasonic, 87
AuGa, 101

Band structure, 175
Bismuth, 87

Cerous magnesium nitrate, 53
Chromium, 545
Compounds, 277, 287, 445
Copper–iron alloys, 365
Critical fields in superconductors, 501
Current pulses, 549

Demagnetization experiments, 387
Density of states, 247
Deuteromethane, 403

Effective mass, 289
Electrical resistance, 15
Electronic states, 111, 147, 175, 413, 565
Excitons, 87

Fermi surface, 289
Fermi velocity, 331
Flux lines in superconductors, 213

Geller radii, 565
Ginzburg–Landau κ, 501
Granular superconductors, 521

^{3}He, liquid, 331, 597
^{4}He, liquid, 413
Helium, 317, 331, 413
High magnetic fields, 87, 101
High temperature superconductivity, 195, 297
Hydrogen, solid, 397

Impurity effects, 175, 247, 397
Indium, 607
Intermediate state in superconductors, 349

KCl, 529

Lead, 349
Lithium, 15
Liquid helium, 317
Lorenz function, 257

Magnesium, 111, 147, 175
Magnetic effects, 521
Magnetic states, 427
Magnetoresistance, 15, 101
Magnets, 449
Mean-field theory, 471
Metals, 87, 101, 111, 147, 175, 229, 243, 257, 265, 289, 545
MgO, 277
Microbridges, 521
Microcylinders, 607
Microwave effects, 521
Mixed state of superconductors, 29
Moving boundary in superconductors, 549

Nb_3Sn, 1
Neon, 397
Neutron diffraction, 213
Niobium, 575

Parahydrogen, 397
Phase transition, 549, 607
Phonons, 317, 529
Pulsed electric fields, 529

Quantum oscillations, 607

Rare earths, 257

Specific heats, 53, 397
Spin compensation, 365
Spin-flip transition, 545
Stress, 1, 73
Superconducting films, 1, 521
Superconductivity, 1, 29, 73, 195, 213, 247, 297, 349, 373, 419, 427, 501, 521, 549, 565, 575, 607
Surface states, 413

ThCe, 229, 243
Thermal conductivity, 257, 277, 331, 365, 403
Thermal expansion, 445

© 1974 Plenum Publishing Corporation, 227 West 17th Street, New York, N.Y. 10011. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, microfilming, recording, or otherwise, without written permission of the publisher.

Thermodynamics, 29, 427
Thermoelectrical power, 229, 243, 419
Thermomolecular corrections, 597
Tin, 289
Transition temperature of superconductors, 73
Tungsten, 545
Tunneling, 247
Two-dimensional dynamics, 459
Type II superconductors, 213

Ultrasonics, 87
UO_2, 445
UO_2/ThO_2, 445

Vapor pressures, 597

Journal of Low Temperature Physics, Vol. 15, Nos. 5/6, 1974

Author Index to Volume 15

Achiam, Y., 559
Amundsen, T., 459
Anderson, A. C., 323

Bartley, D. L., 473
Bergman, D. J., 559
Bishop, R. F., 601
de Boer, W., 249
Borghini, M., 249
Brown, C. R., 407
Butterworth, G. J., 537

Cerdeira, H. A., 577
Chari, M. S. R., 79
Chau, C. K., 447
Childers, R. K., 53
Chopra, V., 71
Clarke, J., 491

Daunt, J. G., 29
Dolan, G. J., 111, 133
Donnelly, R. J., 1

Ebisawa, H., 213
Eggington, M. A., 99

Fenton, E. W., 637
Finn, C. B. P., 537

Goldstein, L., 583
Goldstein, S., 169
Gray, K. E., 335
Gully, W. J., 169

Harrison, J. P., 407
Hickernell, D. C., 29
Houghton, A., 577
Huebener, R. P., 47
Husa, D. L., 29

Ikushima, A., 33

Jerstad, P., 459

Kampwirth, R. T., 47
Kiymac, K., 537
Koshino, N., 281
Kozaki, S., 161
Kramer, L., 367

Lawson, D. T., 169
Lee, D. M., 169
Long, A. R., 523
Lu, S. Y., 447
Lustfeld, H., 269

Maki, K., 213, 577
Matsuo, S., 481
McConville, G. T., 647
Meyer, H., 297
Minnigerode, G. v., 91
Moeser, J. H., 91
Moore, M. A., 99
Morimoto, K., 249

Niinikoski, T. O., 249
Noguchi, S., 481

© 1974 Plenum Publishing Corporation, 227 West 17th Street, New York, N.Y. 10011. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, microfilming, recording, or otherwise, without written permission of the publisher.

O'Hara, S. G., 323
Ohbayashi, K., 33
Ohta, N., 231
Ohtsuka, T., 231
Onuki, A., 161

Parshin, A. Ya., 417
Patterson, J. C., 491
Pesch, W., 367
Peshkov, V. P., 417
Piott, J. E., 29

Richardson, R. C., 169
Riegler, R., 431
Roberts, P. H., 1
Robinson, J. E., 473

Sharma, R. G., 79
Sherlock, R. A., 523
Shibuya, Y., 161
Steglich, F., 91
Subramanyam, S. V., 71
Suematsu, H., 281
Sugiura, H., 481
Sykes, J., 387

Tanuma, S., 281
Tewordt, L., 349
Theumann, A., 547
Tough, J. T., 63

Udo, F., 249

Wallace, B. A., Jr., 297
Weber, H. W., 431
Woo, C.-W., 473
Wyatt, A. F. G., 523

Yamamoto, M., 231

Journal of Low Temperature Physics, Vol. 15, Nos. 5/6, 1974

Subject Index to Volume 15

Adsorbed films, 29, 523
Alloys, 71, 79, 91, 269, 547
Aluminum, 459, 481
Antiferromagnetism, 637
Antimony, 281

Ballistic phonons, 407
Bose gas, 601

Carbon-13, 249
Cerium magnesium nitrate, 407, 537
Coherent potential, 269
Concentration effects, 547
Copper–chromium alloys, 79
Critical behavior, 601
Critical fields, 231
Critical point, 33
Critical temperature, 547
Critical thickness, 133

Density of states, 335
Deuterium, 297
Deuterons, 249
Dielectric constant, 297
Dilute alloys, 79

Electrical conductivity, 79

Films, 29, 47, 111, 133, 335, 523
Fine particles, 481
First order transitions, 161
Flow states, 63
Flux density, 431
Flux tubes, 47
Fourth sound, 559

Giant thermoelectric power, 91
Grafoil, 29
Graphite, pyrolytic, 447

^{3}He, 29, 169, 213, 349, 387, 583
^{3}He–^{4}He mixtures, 99
^{4}He, 33, 53, 63, 297, 473, 523, 559
Helium, 1, 29, 33, 53, 63, 99, 169, 213, 297, 349, 387, 473, 523, 559, 583
Hydrodynamics, 559

Ice, 161
Impurity effects, 231, 637
Indium, 111, 133, 335, 481
Intermediate state, 133
Itinerant electron antiferromagnetism, 637

(*La*, Ce)Al_2, 91
Lead, 47, 111, 133, 481
Line broadening, 29
Liquid ^{3}He, 169, 213, 349, 387
Liquid ^{4}He, 1, 53, 63, 473

Magnetic structure, 111
Magnetic surface states, 281
Magnetic susceptibility, 387
Magnetoresistance, 459
Magnets, thermal properties, 71, 447
Melting pressures, 583
Metals, 71, 79, 111, 133, 281, 459
Microwave resonance, 281
Millikelvin temperatures, 417
Mixed state, 71, 133
Mössbauer thermometry, 417

© 1974 Plenum Publishing Corporation, 227 West 17th Street, New York, N.Y. 10011. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, microfilming, recording, or otherwise, without written permission of the publisher.

Nb–Mo, 71
Nb–Ti, 71
Nb–W, 71
Neon, 297
Niobium, 323
Nuclear magnetic resonance, 29
Nuclear polarization, 249

Phases, 169
Phonons, 407, 523
Polarization, dynamic, 249
Pressure effects, 473
Protons, 249

Rayleigh linewidth, 33
Relaxation effects, 491
Roton scattering, 1
Roton spectrum, 473

Sodium fluoride crystals, 523
Solid deuterium, 297
Solid ^{3}He, 583
Solid ^{4}He, 297
Solid hydrogen, 297
Solid neon, 297, 647
Specific heat, 99
Spin–spin interactions, 249
Spin waves, 213
Structure, 367
Superconducting alloys, 269, 547
Superconducting films, 47, 111, 133, 335
Superconducting mixed state, 71
Superconductivity, 47, 71, 111, 133, 231, 269, 323, 335, 367, 431, 481, 491, 547, 577
Superfluidity, 53, 63, 213, 349, 473, 559
Surface impedance, 577
Surface states, 281
Susceptibility, 387, 537

Temperature effects, 297
Thermal conductivity, 79, 323, 447
Thermal contact, 249
Thermodynamic properties, 367
Thermoelectric power, 91
Thermometry, 417
Tin, 111, 133
Transitions, 133, 161, 335, 481, 637
Triplet pairing superfluidity, 349
Type I superconductors, 335
Type II superconductors, 231, 335, 367, 431, 577

Vapor pressures, 647
Vinen states, 53
Vycor glass, 99

Weak-coupling superconductors, 269

Zero sound, 169

Journal of Low Temperature Physics, Vol. 16, Nos. 5/6, 1974

Author Index to Volume 16

Baird, D. C., 119
Banton, M. E., 211
Bar-Sagi, J., 73
Beasley, M. R., 145, 607
van Beelan, H., 169
Bernier, M., 349
Bertinat, M. P., 479
Betts, D. S., 479
Brewer, D. F., 479
Buhrman, R. A., 409
Butterworth, G. J., 479

Cadieu, F. J., 507
Chencinski, N., 507
Clarke, J., 317
Conçalves, C. E. T., 337

Daunt, J. G., 405
Deville, G., 349

Ebner, C., 43
Eckstein, Y., 131
Eremenko, V. V., 431

Feenberg, E., 128
Fetter, A. L., 533
Fink, J. J., 387
Fu, H.-H., 43

Gold, A. V., 3
Götze, W., 87
Griessen, R., 237
Gribbon, P. W. F., 591

Halperin, W. P., 409
Horton, G. K., 495
Hudson, R. P., 309

Ikushima, A., 291, 401

Kagoshima, S., 401
Kanney, L. B., 495
Kennedy, S. G., 591
Kes, P. H., 169
Kimura, Y., 519
van der Klein, C. A. M., 169
Klemm, R. A., 381, 607
de Klerk, D., 169
Kuper, C. G., 73

Landau, J., 131
Lippmann, G., 367
Luther, A., 607

Maki, K., 465, 557
Meyer, H., 51
Mills, R. L., 305
Monarkha, Yu. P., 193
Mukherjee, B. K., 119

Novikov, V. P., 431

Ohbayashi, K., 401

Petrov, E. G., 431
Pfeiffer, E. R., 309

Rasetti, M., 399
Regge, T., 399
Revelli, J. F., 229
Roberts, R. J., 405
Roe, D. B., 51
Rosenbaum, R. L., 131, 417
Rudnick, I., 417
Rudnick, J., 417

Sato, H., 557
Schelten, J., 367
Schlottmann, P., 87
Schuch, A. F., 305
Schwartzkopf, L. A., 317
Serin, B., 229
Shikin, V. B., 193
Sichel, E. K., 229
Skocpol, W. J., 145
Sorbello, R. S., 237
Sugawara, T., 519

Takano, M., 519
Takayanagi, S., 519
Terui, G., 291
Tinkham, M., 145
Tominaga, A., 571
Trofimenkoff, P. N., 455

© 1974 Plenum Publishing Corporation, 227 West 17th Street, New York, N.Y. 10011. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, microfilming, recording, or otherwise, without written permission of the publisher.

Wallace, B. A., 51
Weber, H. W., 367

Journal of Low Temperature Physics, Vol. 16, Nos. 5/6, 1974

Subject Index to Volume 16

Alkali metals, 455
Alloys, 519
Aluminum, 237
Anisotropy, 455
Antiferromagnetism, 431
Attenuation, 51

Balian–Werthamer State, 465
Bismuth, 317

Cerium magnesium nitrate, 309
Close-packed structures, 305
Critical field, 407
Critical light scattering, 401
Critical opalescence, 571
Critical point, 51, 401

Damping, 479
Deuterium, 405
Dichalcogenides, 229
Diffraction, 367
Dilute solutions, 131
Dipolar heat capacity, 309
Dispersion, 51

Electrical conductivity, 381
Electron focusing, 337
Electron–phonon scattering, 455
Electrons, 193, 317

Fermi gases, 43
Fermi surface, 3, 237, 337
Ferromagnetism, 3
Flow, 211
Fluctuations, 381, 557
Flux jump, 119
Flux line lattice, 367
Four phonon processes, 495

Gold, 409
Gravitational flow, 211

Hall coefficient, 455
^{3}He, 131, 291, 349, 479
^{4}He, 51, 125, 131, 193, 211, 291, 305, 399, 417, 533, 571, 591
^{4}He + ^{3}He mixtures, 131, 291
Helium, 51, 125, 131, 193, 211, 291, 305, 349, 399, 401, 417, 479, 533, 571, 591
Helium film, 591
High pressures, 305
Holes, 317

Ions, 591

Kondo systems, 87, 519

Layer structures, 229
Layered superconductors, 381, 387, 607
Light scattering, 401
Liquid ^{4}He, 125, 193, 211, 399, 533, 591

Magnesium, 237, 409
Magnetic critical fields, 607
Magnetic effects, 169
Magnetic fields, 387
Magnetic focusing, 317
Magnetic susceptibility, 87
Magnetostriction, 237
Magnons, 431
Metals, 455, 507, 519
Microbridges, 145
MoCo, 519
MoFe, 519
MoMn, 519

Nb_3Ge, 507
Neutron diffraction, 367
Neutron irradiation, 169
Niobium, 169
Nucleation, 387, 533

Optical spectra, 431
Oscillations, 193, 237, 479

Pair potential, 73
Phase slip, 145
Phonons, 495
Pressure effects, 305
Propagation of sound, 465
Proximity effect, 387, 409

Quartz crystals, 479

© 1974 Plenum Publishing Corporation, 227 West 17th Street, New York, N.Y. 10011. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, microfilming, recording, or otherwise, without written permission of the publisher.

Radiation damage, 169
$RbMnF_3$, 431
Relaxation times, 349
RF sputtering, 507
Rotating cylinders, 533

Scaling laws, 291
Scattering, 401, 455
Second sound, 291
Self-consistent phonon approximation, 495
Silver, 409
Specific heat, 309, 405
Spin–lattice relaxation, 349
Solid deuterium, 405
Solid ^{3}He, 349
Solid ^{4}He, 125, 305
Solutions, 131
Sound, 465
Stress effects, 237
Superconductors, 73, 119, 145, 169, 367, 381, 387, 409, 507, 519, 557, 607
Supercooling, 409
Superfluid helium, 131, 211, 291, 417, 533, 591
Superleak, 417
Surface electrons, 193
Susceptibility, 87

Thermal conductivity, 131, 229
Thermodynamic functions, 43
Three dimensions, 43
Tin, 145
Torsional oscillations, 429
Transition metals, 3
Transition point, 73, 291, 409, 557
Two dimensions, 43
Type II superconductors, 119, 367

Ultrasonic attenuation, 51
Ultrasonic dispersion, 51
Umklapp scattering, 455
Universality, 291
Upper critical fields, 607

Vapor–liquid interface, 193
Velocity of second sound, 291
Virial theorem, 399
Viscosity, 479
Vortex nucleation, 533

Waveguides, 417

X-rays, 305

Zero sound, 465
Zinc, 237

Journal of Low Temperature Physics, Vol. 17, Nos. 5/6, 1974

Author Index to Volume 17

Agarwal, K. L., 509, 515
Akselrod, S., 375
Anderson, A. C., 409

Bartley, D. L., 551
Beal-Monod, M. J., 439, 467
Betterton, J. O., Jr., 509, 515
Bongi, G., 223
Brewer, D. F., 425
Bretz, M., 479
Bukshpan, S., 375

Canuto, V., 179
Chitre, S. M., 179
Chu, C. W., 25
Chung, T. T., 479
Colp, M. E., 203
Conen, E., 331

de Klerk, D., 295, 341
Douglass, D. H., 403, 405

Ehrat, R., 255
Emerson, D. J., 425
Entel, P., 529

Fernández, J. F., 131
Fischer, K., 87
Fischer, Ø., 223
Flükiger, R., 223
Folinsbee, J. T., 409

Goldstein, L., 375

Hansma, P. K., 247
Harrison, J. P., 43
Hurault, J. P., 439

Ikebe, M., 575
Imry, Y., 247

Johnson, G. R., 403, 405
Jones, H., 223
Jullien, R., 539

Kawaguti, T., 143
Kes, P. H., 275, 341
Kirtley, J., 247
Kleinberg, R. C., 521
Klose, W., 529
Kobayashi, N., 575
Kramer, L., 71

Landesman, A., 365
Lange, F., 65
Levy, M., 121
Lodenquai, J., 179
Long, A. R., 7

Maki, K., 121, 439
Mandell, M. J., 169
Muto, Y., 575

Nakajima, K., 191
Nicholson, J. E., 275
Noto, K., 575
Nozières, P., 31

© 1974 Plenum Publishing Corporation, 227 West 17th Street, New York, N.Y. 10011. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, microfilming, recording, or otherwise, without written permission of the publisher.

Onodera, Y., 191

Pal-Val, L. N., 497
Parish, L., 179
Pasternak, M., 375
Paulson, D. N., 521
Pesch, W., 71
Platkov, V. Ya., 497
Puma, M., 131

Reppel, G. W., 287
Rinderer, L., 191, 255
Robinson, D. A., 121
Robinson, J. E., 551
Rolfes, G. A., 341
Roshko, R. M., 203

Sacli, Ö. A., 425
Salvo, H., 121
Sánchez, D. H., 101
Saur, E. J., 287
Schick, M., 489
Schmid, A., 331
Schneider, D., 223
Shibuya, Y., 143
Siddon, R. L., 489
Sikora, P. T., 275
Siles, J. R., 159
Smith, T. F., 323
Sposito, G., 1

Treyvaud, A., 223

van Beelen, H., 295
van der Klein, C. A. M., 295
Vieland, L. J., 25

Watts-Tobin, R., 71
Webb, R. A., 521
Weber, H. W., 49
Wheatley, J. C., 521
Williams, G., 203
Wong, V. K., 551

Yamashita, T., 191

Zane, L. I., 159

Journal of Low Temperature Physics, Vol. 17, Nos. 5/6, 1974

Subject Index to Volume 17

Adsorbed films, 479, 489
Alloys, 255, 425, 439, 515, 575
Alternating fields, 295
Aluminum, 121
Antiferromagnetism, 425
Attenuation, 121

Calcium, 509
Critical currents, 65
Critical temperature, 247

Density of states, 71
Desorption, 7
Diffusion, spin, 365
Dilute alloys, 439
Dislocation effects, 497
Dispersion, 1

Electrical conductivity, 143, 247
Electrical properties, 203
Electromagnetic waves, 121
Energy levels, 179
Energy transfer, 7
Entropy, 71

Fermi liquids, 31
Ferromagnetism, 425
Films, adsorbed, 479, 489
Films, metallic, 121, 143, 191, 331
Fluctuations, 87, 121, 143, 247, 439, 467
Flux flow, 275
Flux lines, 49, 275

Granular metals, 247, 375
Graphite, 479

Ground state energy, 179

H_{c2}, 255
^{3}He, 159, 179, 365, 521, 551
^{4}He, 1, 7, 131, 409, 551
^{3}He–^{4}He solutions, 551
Helium, 1, 7, 43, 131, 159, 179, 365, 409, 521, 551
High pressures, 25
Hydrogen, 479, 489

Impurity effects, 223
Iron, 203

Josephson junctions, 191

Kapitza resistance, 43, 409
Kondo effect, 31, 101, 467

Lead, 323, 497
Lead–indium alloys, 255
Liquid ^{3}He, 521
Liquid ^{4}He, 1, 43, 409
Liquid helium, 1, 43, 409, 521, 551

Magnetic cooling, 375
Magnetic correlations, 529
Magnetic effects, 223, 275, 295, 331, 539
Magnetic transition, 255
Magnetization, 65
Metals, 121, 143, 191, 203, 223, 255, 323, 341, 375, 409, 425, 497, 509, 515, 539
Mixed superconducting state, 575

© 1974 Plenum Publishing Corporation, 227 West 17th Street, New York, N.Y. 10011. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, microfilming, recording, or otherwise, without written permission of the publisher.

NbN, 287
$Nb_{76}Pt_{24-x}Fe_x$, 223
Nb_3Sn, 25
Nearly magnetic solids, 539
Neutron depolarization, 49
Neutron irradiation effects, 295
Niobium, 143, 295, 323, 341

$Pd_{95}Rh_5$, 203
Phonon spectrum, 551
Pinning effects, 191, 497
Polycritical points, 521
Potential, intermolecular, 169
Proximity effect, 287
*Pt*Mn alloys, 425

Relaxation rates, 539
Renormalization, 439

Small particle arrays, 247
Solid ^{3}He, 159, 179, 365
Solid ^{4}He, 131
Solid N_2, 169
Solids, 7, 131, 159, 169, 179, 203, 223, 255, 295, 539, 575
Solutions, 551
Sound, 1
Specific heat, 71, 425, 479, 509, 515
Spin systems, 87, 365, 439, 467, 539
Strain effects, 323
Superconducting films, 121, 143, 191, 331
Superconductivity, 25, 49, 65, 71, 101, 121, 143, 191, 247, 255, 287, 295, 323, 331, 341, 375, 497, 529, 575
Superconductors, dirty, 71
Supercooling, 521
Superfluidity, 131, 521
Superheating, 521
Surface effects, 7, 409, 479, 489

t-Matrix, 179
Ta–Nb alloys, 575
Temperature, transition, 25, 323, 529
Thermal conductivity, 101, 341, 575
Ti–Hf alloys, 515
Tin, 375
Transitions, 255, 497, 521
Transport properties, 87
Type II superconductors, 49, 65, 71, 255, 275

Vacancies, 365
Vapor, 7
Virial coefficients, 489

Wilson theory, 467
Wires, 275

Zero sound, 1
Zn–Mn, 101

CONTENTS

Vol. 14, Nos. 1/2 **January 1974**

Superconductivity of Thin Nb_3Sn Films Under Tensile Stress 1
W. A. Pupp, W. W. Sattler, and E. J. Saur

The Resistance and Magnetoresistance of Lithium Tetra-Ammine 15
M. D. Rosenthal and B. W. Maxfield

Local Structure and Thermodynamic Behavior of Dirty Superconductors in the Mixed State at Arbitrary Temperature 29
Lorenz Kramer, Werner Pesch, and R. J. Watts-Tobin

The Heat Capacity of Cerous Magnesium Nitrate and Some Related Materials Between 0.3 and 4 K 53
Jack H. Colwell

Calculation of the Stress Dependence of the Superconducting Transition Temperature 73
H. R. Ott and R. S. Sorbello

Ultrasonic Attenuation of the Excitonic State in Pure Bismuth in High Magnetic Fields 87
Kazuo Nakanishi and Kazumi Maki

High-Field Magnetoresistance of AuGa 101
Robert Bass and P. A. Schroeder

Interfering Electron Quantum States in Ultrapure Magnesium 111
R. W. Stark and C. B. Friedberg

Effects of Alloying in the Dilute Limit on the Quantum States of Electrons in Magnesium 147
C. B. Friedberg

Coherent Scattering Theory for the Electronic Band Structure and Quantum-State Lifetimes in a Dilute Substitutional Mg Alloy 175
R. W. Stark and C. B. Friedberg

An Important Parameter in High-Temperature Superconductivity 195
C. R. Leavens and J. P. Carbotte

Neutron Diffraction Studies of the Morphology of Flux Line Crystals in Type II Superconductors 213
J. Schelten, G. Lippmann, and H. Ullmaier

Vol. 14, Nos. 3/4 **February 1974**

Comments upon "The Thermoelectric Power of Some *Th*Ce Alloys" and an Alternate Suggestion 229
C. L. Foiles

The Thermoelectric Power of Some *Th*Ce Alloys: A Reply 243
J. R. Cooper and C. Rizzuto

Superconductors with Crystalline-Field-Split Impurities: Tunneling Density of States 247
Peter Holzer, Joachim Keller, and Peter Fulde

Thermal Conductivities and Lorenz Functions of the Heavy Rare Earth Metals Between 90 and 300 K 257
Donald G. S. Chuah and R. Ratnalingam

Thermal Conductivity of Additively Colored MgO 277
D. S. Kupperman, H. Weinstock, and Y. Chen

Fermi Surface Deformation Parameters and Cyclotron Effective Masses in White Tin 287
M. M. Finkelstein

Search for Superconductors Above 20 K 297
J. M. Leger

Power Series Expansion of Phonon Spectrum in Liquid Helium 317
Yuh-Ren Lin-Liu and Chia-Wei Woo

Experiments with ^{3}He Quasiparticles in the Collisionless Regime. I. A Direct Measurement of the Fermi Velocity by Heat Conduction 331
D. S. Betts, D. F. Brewer, and R. S. Hamilton

Nonbranching Intermediate-State Structures in Bulk Lead. 349
A. Kiendl and H. Kirchner

Evidence of Spin Compensation in Copper–Iron Alloys Obtained from Thermal Conductivity Measurements 365
R. G. Sharma and M. S. R. Chari

Diffusionlike Equation for Superconducting Binary Alloys 373
M. C. Leung

Demagnetization Experiments on Some Promising New Compounds for Very Low-Temperature Refrigeration 387
B. M. Abraham, J. B. Ketterson, P. R. Roach, and E. R. Pfeiffer

Effects of Neon Impurities on Heat Capacity of Solid Parahydrogen 397
V. G. Manzhelii, V. A. Popov, G. P. Chausov, and L. I. Vladimirova

Thermal Conductivity of Deuteromethane 403
I. N. Krupskii, L. A. Koloskova, and V. G. Manzhelii

Vol. 14, Nos. 5/6 **March 1974**

Electronic Surface States on Liquid Helium 413
Hsing-Mei Huang, Yu Ming Shih, and Chia-Wei Woo

Thermoelectric Power Above the Superconducting Transition 419
Kazumi Maki

Thermodynamic Stability of Superconducting Magnetic States 427
I. Kirschner and K. Martinás

The Thermal Expansion at Low Temperatures of UO_2 and UO_2/ThO_2 445
G. K. White and F. W. Sheard

The Dynamics of Two-Dimensional Planar Magnets 459
A. Ya. Blank, V. L. Pokrovskii, and G. V. Uimin

Mean-Field Theory of Some Magnetized Antiferromagnets 471
Louis Goldstein

Temperature Dependence of H_{c2} and κ_1 in Strong Coupling Superconductors 501
D. Rainer and G. Bergmann

Microwave and Magnetic Field Effects in Superconducting Granular Aluminum Film Microbridges 521
S. L. McCarthy and J. Warman

Phonon Generation in $KCl:Li^+$ and $KCl:OH^-$ with Pulsed Electric Fields 529
W. M. Goubau

Spin-Flip Transition in the Chromium–Tungsten System 545
L. Hedman, K. Svensson, K. V. Rao, S. Arajs, and H. U. Åström

First-Order Phase Transition with a Moving Boundary. I. Superconducting to Normal Transition of Type I Superconductors by a Rectangular Current Pulse 549
Yoshio Shibuya, Seiki Koga, and Akira Onuki

A-15 Phases: Occurrence, Geller Radii, and Electronic Structure 565
G. R. Johnson and D. H. Douglass

Superconductivity in New A-15 Niobium Alloys 575
G. R. Johnson and D. H. Douglass

Thermomolecular Corrections to Vapor Pressure Measurements of ^{3}He 597
T. P. Bernat and H. D. Cohen

Quantum Oscillations and Reversible and Irreversible Superconducting Phase Transitions in Indium Microcylinders 607
P. Michael and D. S. McLachlan

Author Index to Volume 14 629

Subject Index to Volume 14 631

CONTENTS

Vol. 15, Nos. 1/2 **April 1974**

Scattering and Binding of Rotons 1
Paul H. Roberts and Russell J. Donnelly

Source of NMR Line Broadening for ^{3}He Adsorbed on Grafoil 29
D. C. Hickernell, D. L. Husa, J. G. Daunt, and J. E. Piott

Rayleigh Linewidth in ^{4}He Near the Gas–Liquid Critical Point 33
Kohji Ohbayashi and Akira Ikushima

Pattern of Flux Tubes in Superconducting Lead Films 47
R. P. Huebener and R. T. Kampwirth

Observation of Multiple Vinen States in He II Counterflow 53
R. K. Childers and J. T. Tough

Observation of a New Flow State in He II Counterflow 63
R. K. Childers and J. T. Tough

Magnetothermal Properties of Nb–W, Nb–Ti, and Nb–Mo Alloys in the Mixed State 71
S. V. Subramanyam and V. Chopra

The Electrical and Thermal Conductivities of Dilute Copper–Chromium Alloys at Low Temperatures 79
R. G. Sharma and M. S. R. Chari

Giant Thermoelectric Power of $(La, Ce)Al_2$ 91
J. H. Moeser, F. Steglich, and G. v. Minnigerode

Specific Heat of ^{3}He–^{4}He Mixtures in Vycor Glass 99
M. A. Eggington and M. A. Moore

Direct Observations of the Magnetic Structure in Thin Films of Pb, Sn, and In 111
G. J. Dolan

Critical Thicknesses for the Transition from Intermediate- to Mixed-State Behavior in Superconducting Thin Films of Pb, Sn, and In 133
G. J. Dolan

First-Order Phase Transition with a Moving Boundary. II. Theory of Ice Formation 161
Akira Onuki, Yoshio Shibuya, and Shinichiro Kozaki

Attenuation of Zero Sound and the Several Low-Temperature Phases of Liquid ^{3}He 169
D. T. Lawson, W. J. Gully, S. Goldstein, R. C. Richardson, and D. M. Lee

Vol. 15, Nos. 3/4 May 1974

Spin Waves in Anisotropic Superfluid ^{3}He 213
Kazumi Maki and Hiromichi Ebisawa

Impurity Effect on the Anisotropy of the Upper Critical Field in Type II Superconductors 231
M. Yamamoto, N. Ohta, and T. Ohtsuka

Dynamic Polarization of Protons, Deuterons, and Carbon-13 Nuclei: Thermal Contact Between Nuclear Spins and an Electron Spin–Spin Interaction Reservoir 249
W. de Boer, M. Borghini, K. Morimoto, T. O. Niinikoski, and F. Udo

Coherent Potential Approximation for Nonmagnetic Weak-Coupling Superconducting Alloys. II 269
H. Lustfeld

Microwave Resonance of Magnetic Surface States in Antimony 281
Hiroyoshi Suematsu, Naga-aki Koshino, and Sei-ichi Tanuma

The Temperature Dependence of the Dielectric Constant in Solid H_2, D_2, ^{4}He, and Ne 297
B. A. Wallace, Jr., and H. Meyer

The Lattice Thermal Conductivity of Normal and Superconducting Niobium 323
A. C. Anderson and S. G. O'Hara

Transition from Type I to Type II Behavior and the Density of States in Thin Indium Films 335
K. E. Gray

Self-Consistent Approximations in the Theory of Triplet Pairing Superfluidity in ^{3}He 349
L. Tewordt

Local Structure and Thermodynamic Properties of Clean Type II Superconductors Near H_{c1} at Arbitrary Temperature 367
Werner Pesch and Lorenz Kramer

The Susceptibility of Liquid ^{3}He Near 1 K 387
J. Sykes

Ballistic Phonon Propagation in Cerium Magnesium Nitrate 407
C. R. Brown and J. P. Harrison

On Mössbauer Thermometry in the Millikelvin Region 417
A. Ya. Parshin and V. P. Peshkov

Vol. 15, Nos. 5/6 **June 1974**

Flux Density Distribution in Low-κ Type II Superconductors 431
R. Riegler and H. W. Weber

Low-Temperature Magnetothermal Conductivity of Pyrolytic Graphite 447
C. K. Chau and S. Y. Lu

Linear Magnetoresistance of Aluminum 459
T. Amundsen and P. Jerstad

Pressure Dependence of the Roton Spectrum in Liquid Helium 473
David L. Bartley, John E. Robinson, and Chia-Wei Woo

Superconducting Transition Temperature of Aluminum, Indium, and Lead Fine Particles 481
Susumu Matsuo, Hideo Sugiura, and Seiichiro Noguchi

Measurements of the Relaxation of Quasiparticle Branch Imbalance in Superconductors 491
John Clarke and James L. Paterson

Phonon Reflection at a Cleaved Sodium Fluoride–Helium Film Interface 523
A. R. Long, R. A. Sherlock, and A. F. G. Wyatt

The Paramagnetic Susceptibility of Partially Dehydrated Cerium Magnesium Nitrate 537
G. J. Butterworth, C. B. P. Finn, and K. Kiymac

Concentration Effects in the Critical Temperature of Superconducting Alloys—Functional Integral Method 547
Alba Theumann

Hydrodynamic Theory of Fourth Sound in Clamped Conditions 559
Ya'akov Achiam and David J. Bergman

Surface Impedance of Clean Type II Superconductors 577
Hilda A. Cerdeira, A. Houghton, and K. Maki

The Melting Pressure of Helium-3 at Very Low Temperatures 583
Louis Goldstein

Critical Behavior of a Charged Bose Gas 601
R. F. Bishop

Effects of Impurities of the Phase Transition of an Itinerant Electron Antiferromagnet 637
E. W. Fenton

Vapor Pressure Ratios over the Solid Neon Isotopes 647
G. T. McConville

Author Index to Volume 15 665

Subject Index to Volume 15 667

CONTENTS

Vol. 16, Nos. 1/2 **July 1974**

Notice of the Fourteenth International Conference on Low Temperature Physics (LT 14) 1

REVIEW PAPER: Fermi Surfaces of the Ferromagnetic Transition Metals 3
A. V. Gold

Thermodynamic Functions of Ideal Two- and Three-Dimensional Fermi Gases 43
C. Ebner and Hui-Hsing Fu

Ultrasonic Dispersion and Attenuation Near the Liquid–Gas Critical Point of ^{4}He 51
David B. Roe, Barnie A. Wallace, and Horst Meyer

Self-Consistent Pair Potential in Superconductors. I. The Superconductor–Insulator Boundary Near T_c 73
J. Bar-Sagi and C. G. Kuper

On the Longitudinal Static and Dynamic Susceptibility of Spin-1/2 Kondo Systems 87
W. Götze and P. Schlottmann

The Kinetics of Flux Jumps in Type II Superconducting Disks 119
B. K. Mukherjee and D. C. Baird

Approach to a Uniform Theory of the Liquid and Solid Phases of ^{4}He at Absolute Zero 125
Eugene Feenberg

Temperature, Pressure, and Concentration Dependence of the Thermal Conductivity of Very Dilute Solutions of ^{3}He in Superfluid ^{4}He 131
Ralph L. Rosenbaum, J. Landau, and Y. Eckstein

Phase-Slip Centers and Nonequilibrium Processes in Superconducting Tin Microbridges 145
W. J. Skocpol, M. R. Beasley, and M. Tinkham

The Effect of Neutron Irradiation Damage on the Magnetic Behavior of Superconducting Niobium in Stationary Fields 169
C. A. M. van der Klein, P. H. Kes, H. van Beelen, and D. de Klerk

On the Interaction of Surface Electrons in Liquid Helium with Oscillations of the Vapor–Liquid Interface 193
V. B. Shikin and Yu. P. Monarkha

Vol. 16, Nos. 3/4 August 1974

Gravitational Flow of Superfluid Helium Through Small Orifices 211
Martin E. Banton

Thermal Conductance of Layer Structure Dichalcogenides 229
E. K. Sichel, B. Serin, and J. F. Revelli

Oscillatory Magnetostriction and the Stress Dependence of the Fermi Surface of Aluminium, Indium, Zinc, and Magnesium 237
R. Griessen and R. S. Sorbello

Second-Sound Velocity and Superfluid Density in ^{3}He–^{4}He Mixtures Near Superfluid Transition Points—Applicability of Universality and Scaling Laws 291
Giichi Terui and Akira Ikushima

X-Ray Study of ^{4}He Close-Packed Structures at High Pressure 305
R. L. Mills and A. F. Schuch

Dipolar Heat Capacity of CMN 309
R. P. Hudson and E. R. Pfeiffer

Magnetic Focusing of Electrons and Holes in Bismuth 317
John Clarke and Louis A. Schwartzkopf

Electron Focusing and Fermi Surface Diameter 337
C. E. T. Conçalves da Silva

Temperature-Independent Spin–Lattice Relaxation in bcc ^{3}He: Influence of ^{4}He 349
M. Bernier and G. Deville

Properties of the Flux Line Lattice in Hysteretic Type II Superconductors. I. Neutron Diffraction Experiments 367
H. W. Weber, J. Schelten, and G. Lippmann

Fluctuation-Induced Conductivity in Layered Superconductors 381
Richard A. Klemm

Superconducting Nucleation Fields and Proximity Effect of Normal–Superconducting–Normal Triple Layers 387
H. J. Fink

Erratum: Coherent States and Virial Theorem for Liquid ^{4}He 399
Mario Rasetti and Tullio Regge

Erratum: Critical Light Scattering in ^{4}He Near the Gas–Liquid Critical Point 401
Seiichi Kagoshima, Kohji Ohbayashi, and Akira Ikushima

Vol. 16, Nos. 5/6 September 1974

Anomalous Specific Heat of Solid Deuterium Below 0.6 K 405
R. J. Roberts and J. G. Daunt

The Elimination of Supercooling in Superconductors by the Proximity Effect: New Bounds on T_c for Mg, Ag, and Au 409
R. A. Buhrman and W. P. Halperin

A Waveguide Partially Packed with Superleak as a Probe of Superfluid Properties 417
Joseph Rudnick, Isadore Rudnick, and Ralph Rosenbaum

Multimagnon Absorption in the Optical Spectrum of Antiferromagnetic $RbMnF_3$ 431
V. V. Eremenko, V. P. Novikov, and E. G. Petrov

Anisotropy of Electron–Phonon Umklapp Scattering and the Hall Coefficient: Model Results for an Alkali Metal 455
P. N. Trofimenkoff

Propagation of Zero Sound in the Balian–Werthamer State 465
Kazumi Maki

Damping of Torsional Oscillations of a Quartz Crystal Cylinder in Liquid Helium at Low Temperatures I. Viscosity of Pure ^{3}He 479
M. P. Bertinat, D. S. Betts, D. F. Brewer, and G. J. Butterworth

An Improved Self-Consistent Phonon Approximation Including Four-Phonon Processes 495
L. B. Kanney and G. K. Horton

The Synthesis of Nb_3Ge by RF Sputtering 507
Norbert Chencinski and F. J. Cadieu

Kondo Effect in Superconducting Dilute *Mo*Co, *Mo*Fe, and *Mo*Mn Alloys 519
S. Takayanagi, M. Takano, Y. Kimura, and T. Sugawara

Vortex Nucleation in Deformed Rotating Cylinders 533
Alexander L. Fetter

Fluctuation Phenomena Below the Superconducting Transition 557
Kazumi Maki and Hirokazu Sato

Intensity of Critical Opalescence of Helium-4 571
Akira Tominaga
Ions in the Helium Film 591
P. W. F. Gribbon and S. G. Kennedy
The Upper Critical Field of Layered Superconductors 607
Richard A. Klemm, M. R. Beasley, and A. Luther
Author Index to Volume 16 617
Subject Index to Volume 16 619

CONTENTS

Vol. 17, Nos. 1/2 **October 1974**

On the Dispersion of Zero Sound in Liquid ^{4}He 1
Garrison Sposito

Energy Transfer from Solids to Helium Vapor by the Desorption of Surface-Bound Atoms 7
A. R. Long

The Superconducting Transition Temperature and Its High-Pressure Behavior of Tetragonal Nb_3Sn 25
C. W. Chu and L. J. Vieland

A "Fermi-Liquid" Description of the Kondo Problem at Low Temperatures 31
P. Nozières

Kapitza Resistance—A Universal Curve 43
J. P. Harrison

Properties of the Flux Line Lattice in Hysteretic Type II Superconductors. II. Neutron Depolarization Experiments 49
H. W. Weber

Calculation of the Critical Current Density of Hard Superconductors from the Magnetization of Cylindrical Samples 65
F. Lange

Density of States, Entropy, and Specific Heat for Dirty Type II Superconductors at Arbitrary Temperature 71
Richard Watts-Tobin, Lorenz Kramer, and Werner Pesch

Transport Properties of Local Spin Fluctuation Systems 87
K. Fischer

Thermal Conductivity of the Kondo Superconductor Zn–Mn 101
Daniel H. Sánchez

Electromagnetic Wave Attenuation by Superconducting Fluctuations in a Thin, Granular Aluminum Film 121
D. A. Robinson, H. Salvo, Jr., K. Maki, and M. Levy

Superfluidity of Solid ^{4}He 131
Julio F. Fernández and Marcello Puma

Excess Electrical Conductivity Due to Fluctuations of Quench-Condensed Superconducting Nb Films 143
Takasi Kawaguti and Yoshio Shibuya

Consistent Low-Field Picture of bcc ^{3}He Exchange 159
L. I. Zane and J. R. Sites

On the Intermolecular Potential in Solid N_2 169
Myron J. Mandell

t-Matrix Calculation of the Ground-State Energies of Solid ^{3}He 179
V. Canuto, J. Lodenquai, L. Parish, and S. M. Chitre

Mechanical Analog of Thin-Film Josephson Junction and Its Pinning Effect 191
T. Yamashita, L. Rinderer, K. Nakajima, and Y. Onodera

Vol. 17, Nos. 3/4 **November 1974**

Electrical Properties of Exchange-Enhanced Systems: Fe in $(Pd_{95}Rh_5)$ 203
M. E. Colp, R. M. Roshko, and Gwyn Williams

The Behavior of Magnetic and Nonmagnetic Impurities in the System $Nb_{76}Pt_{24-x}Fe_x$ 223
G. Bongi, R. Flükiger, A. Treyvaud, Ø. Fischer, H. Jones, and D. Schneider

Fluctuation-Induced Conductivity Above the Critical Temperature in Small-Particle Arrays 247
J. Kirtley, Y. Imry, and P. K. Hansma

The Nature of the Transition at H_{c2} in Low-κ Type II Lead–Indium Superconducting Alloys 255
R. Ehrat and L. Rinderer

Flux Flow in Type II Superconducting Wires in Longitudinal Magnetic Fields 275
J. E. Nicholson and P. T. Sikora

Superconducting Proximity Effect of NbN 287
G. W. Reppel and E. J. Saur

The Effect of Neutron Irradiation Damage on the Magnetic Behavior of Superconducting Niobium in Alternating Fields 295
C. A. M. van der Klein, P. H. Kes, H. van Beelen, and D. de Klerk

On the Strain Dependence of T_c for Niobium and Lead 323
T. F. Smith

Properties of a Superconducting Film in a Perpendicular Magnetic Field 331
E. Conen and A. Schmid

Thermal Conductivity of Niobium in the Purely Superconducting and Normal States 341
P. H. Kes, J. G. A. Rolfes, and D. de Klerk

Moment Calculation of Vacancy-Induced Spin Diffusion in bcc Solid ^{3}He 365
A. Landesman

Superconductivity and Lattice Dynamics of Granular Tin 375
S. Akselrod, M. Pasternak, and S. Bukshpan

Theory of a Magnetic Cooling System at Very Low Temperatures 385
Louis Goldstein

Erratum: A-15 Phases: Occurrence, Geller Radii, and Electronic Structure 403
G. R. Johnson and D. H. Douglass

Erratum: Superconductivity in New A-15 Niobium Alloys 405
G. R. Johnson and D. H. Douglass

Vol. 17, Nos. 5/6 **December 1974**

The Kapitza Resistance to a Variety of Metallic Surfaces Below 0.3 K 409
J. T. Folinsbee and A. C. Anderson

Ferromagnetic and Antiferromagnetic Ordering in Platinum–Manganese Alloys: Low-Temperature Specific Heat 425
Ö. A. Sacli, D. J. Emerson, and D. F. Brewer

I. On the Renormalizability of the Locally Enhanced Spin Fluctuation Problem in Dilute Alloys 439
M. T. Beal-Monod, K. Maki, and J. P. Hurault

II. Locally Enhanced Spin Fluctuations Viewed Within the Wilson Theory. Comparison with the Kondo Problem 467
M. T. Beal-Monod

Specific Heat of Para-Hydrogen Monolayers on Graphite 479
Michael Bretz and T. T. Chung

Second Virial Coefficient of Adsorbed Para-Hydrogen 489
R. L. Siddon and M. Schick

The Nature of the Change in the Conditions for Surmounting Pinning Centers by Dislocation in Lead at the Superconducting Transition 497
L. N. Pal-Val and V. Ya. Platkov

Low-Temperature Specific Heat of High-Purity Calcium 509
K. L. Agarwal and J. O. Betterton, Jr.

Low-Temperature Specific Heat of Ti–Hf Alloys 515
K. L. Agarwal and J. O. Betterton, Jr.

Supercooling and Superheating of the AB Transition in Superfluid ^{3}He Near the Polycritical Point 521
R. L. Kleinberg, D. N. Paulson, R. A. Webb, and J. C. Wheatley

The Influence of Short-Range Magnetic Correlations on the Superconducting Transition Temperature 529
P. Entel and W. Klose

Thermal Variation of the Spin Relaxation Rate in Nearly Magnetic Metals 539
R. Jullien

The Coupled Phonon Spectrum in ^{3}He–^{4}He Solutions 551
David L. Bartley, Victor K. Wong, and John E. Robinson

Thermal Conductivity of Ta–Nb Alloys in Superconducting, Mixed, and Normal States 575
Norio Kobayashi, Koshichi Noto, Manabu Ikebe, and Yoshio Muto

Author Index to Volume 17 597

Subject Index to Volume 17 599